



Re: Fw: Ethylene Glycol
Cynthia Caporale to: Stevie Wilding
Cc: Robin Costas

03/02/2012 09:18 AM

From: Cynthia Caporale/ESC/R3/USEPA/US
To: Stevie Wilding/ESC/R3/USEPA/US
Cc: Robin Costas/ESC/R3/USEPA/US@EPA

Either EDD report is fine. The results are going into Scribe.

Cynthia Caporale, Chief
OASQA Laboratory Branch
U.S. EPA Region III
Environmental Science Center
Fort Meade, MD
(410) 305-2732
Fax: (410) 305-3095

-----Stevie Wilding/ESC/R3/USEPA/US wrote: -----

To: Cynthia Caporale/ESC/R3/USEPA/US@EPA, Robin Costas/ESC/R3/USEPA/US@EPA
From: Stevie Wilding/ESC/R3/USEPA/US
Date: 03/02/2012 09:05AM
Subject: Fw: Ethylene Glycol

I will tell Rick to send reports to both of you and CC me.

Is the SEDD2a good or a simple Excel file?

----- Forwarded by Stevie Wilding/ESC/R3/USEPA/US on 03/02/2012 09:04 AM -----

From: Rick McMillin/R6/USEPA/US
To: Stevie Wilding/ESC/R3/USEPA/US
Cc: Christy Warren/R6/USEPA/US@EPA, David Neleigh/R6/USEPA/US@EPA
Date: 03/02/2012 08:56 AM
Subject: Re: Ethylene Glycol

Stevie,

We got a good curve shot from 0.5 to 200 ppm. The propylene glycol is good fit with average response (10%RSD) using all 10 points and the ethylene glycol is 0.999 quadratic fit 0.5-100 ppm using 9 points. We will shoot 7 reps at 1ppm to verify MDL and we should be good to go.

When we did this for Gulf Oil Spill we called the method a modified 8270 because it is using GC/MS, but I suppose it could be called a modified 8015 if needed.

The sample collection and turnaround times should be fine for us.

Who do we send results to and what format? We can create SEDD 2a if needed, but we normally

generate a PDF and a simple Excel file.

Christy Warren [(281)983-2137] will be the point of contact on scheduling and receiving samples and sending out the reports.

Ken Stevens is setting the method up, but it could be either Ken or Nick Gannon doing the analysis.

Rick McMillin
Deputy Branch Chief
Region 6 Houston Lab
p: 281-983-2107
f: 281-983-2124
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c2: 281-415-6819

Stevie Wilding---03/01/2012 04:48:05 PM---Per sample -- there will be two vials. For MS/MSD -- I will request 6 vials. Each house will have

From: Stevie Wilding/ESC/R3/USEPA/US
To: Rick McMillin/R6/USEPA/US@EPA
Date: 03/01/2012 04:48 PM
Subject: Re: Ethylene Glycol

Per sample -- there will be two vials. For MS/MSD -- I will request 6 vials.

Each house will have two samples taken (not actually duplicates -- due to treatment systems, so one sample is before treatment and one is after.)

So a total of 2 samples per house which equates to 4 vials per house

Is this clear as mud?

Rick McMillin---03/01/2012 05:33:29 PM---I think this will be fine. Everyone has gone home so I will double check in the morning. I still n

From: Rick McMillin/R6/USEPA/US
To: Stevie Wilding/ESC/R3/USEPA/US
Date: 03/01/2012 05:33 PM
Subject: Re: Ethylene Glycol

I think this will be fine. Everyone has gone home so I will double check in the morning. I still need to see how the curve and MDL work went, but I'm confident all is well. I assume you are saying two VOA vials per sample location (duplicates), or 4 VOA vials total per house (two at pump and two in house).

Rick McMillin
Deputy Branch Chief

Region 6 Houston Lab
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Stevie Wilding---03/01/2012 12:29:58 PM---Rick, The samplers have sent two 40 mL VOA vials to the lab. Is that enough volume for you -- we ca

From: Stevie Wilding/ESC/R3/USEPA/US
To: Rick McMillin/R6/USEPA/US@EPA
Cc: Cynthia Caporale/ESC/R3/USEPA/US@EPA, Jennifer Gundersen/ESC/R3/USEPA/US@EPA, Christy Warren/R6/USEPA/US@EPA
Date: 03/01/2012 12:29 PM
Subject: Re: Ethylene Glycol

Rick,

The samplers have sent two 40 mL VOA vials to the lab. Is that enough volume for you -- we can request more.

Do you need a formal written request? Four homes will be sampled next week. Each home will be two samples (at pump and in house) and then blanks each day -- so a total of 10 samples. If you have hits -- draft results would be great and final results are a 21 day TAT.

HW-56	3/5/2012 1:30
HW-60	3/5/2012 8:30
HW-62	3/6/2012 8:30
HW-61	3/6/2013 1:30

I will provide the following address to the samplers.

Christy Warren
U.S. EPA Region 6 Laboratory
Sample Control Center
10625 Fallstone Road
Houston, Texas 77099
281-983-2137

Thanks, Stevie

Rick McMillin---03/01/2012 09:20:49 AM---Great. Our 50ppm standard from last night looks very good, so we are shooting a curve today from 0.

From: Rick McMillin/R6/USEPA/US

To: Stevie Wilding/ESC/R3/USEPA/US
Cc: Cynthia Caporale/ESC/R3/USEPA/US@EPA, Jennifer Gundersen/ESC/R3/USEPA/US@EPA, Christy Warren/R6/USEPA/US@EPA
Date: 03/01/2012 09:20 AM
Subject: Re: Ethylene Glycol

Great. Our 50ppm standard from last night looks very good, so we are shooting a curve today from 0.5-10 ppm. If that looks good we will look at MDLs and should be ready to go. What size/kind of samples are usually sent for this test?

Rick McMillin
Deputy Branch Chief
Region 6 Houston Lab
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Stevie Wilding---03/01/2012 07:23:42 AM---Rick, Perfect -- I intended to call you today to clarify my request. These are the two compounds we

From: Stevie Wilding/ESC/R3/USEPA/US
To: Rick McMillin/R6/USEPA/US@EPA
Cc: Cynthia Caporale/ESC/R3/USEPA/US@EPA, Jennifer Gundersen/ESC/R3/USEPA/US@EPA, Christy Warren/R6/USEPA/US@EPA
Date: 03/01/2012 07:23 AM
Subject: Re: Ethylene Glycol

Rick,

Perfect -- I intended to call you today to clarify my request. These are the two compounds we are unable to do.

Rick McMillin---02/29/2012 05:18:14 PM---Stevie, I'm being told we can't do the list in your table at this time.

From: Rick McMillin/R6/USEPA/US
To: Stevie Wilding/ESC/R3/USEPA/US
Cc: Cynthia Caporale/ESC/R3/USEPA/US@EPA, Jennifer Gundersen/ESC/R3/USEPA/US@EPA, Christy Warren/R6/USEPA/US@EPA
Date: 02/29/2012 05:18 PM
Subject: Re: Ethylene Glycol

Stevie,

I'm being told we can't do the list in your table at this time.

We should be able to do ethylene glycol and propylene glycol by GC/MS direct injection on a wax column like we did for the Gulf Oil Spill. However we have had troubles with our instrument that we are using so it has taken longer than expected. A standard is running now, so we should know more by morning. I think we should be able to achieve similar detection limits as the contractor lab did, but we are using a MS instead of an FID, so we might not be able to go quite as low. Hopefully we will know tomorrow.

Rick McMillin
Deputy Branch Chief
Region 6 Houston Lab
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Stevie Wilding---02/29/2012 10:28:29 AM---Rick, This is great. Right now we have an ethylene glycol RLs at 10 ppm with the labs reporting dow

From: Stevie Wilding/ESC/R3/USEPA/US
To: Rick McMillin/R6/USEPA/US@EPA
Cc: Cynthia Caporale/ESC/R3/USEPA/US@EPA, Jennifer Gundersen/ESC/R3/USEPA/US@EPA
Date: 02/29/2012 10:28 AM
Subject: Re: Ethylene Glycol

Rick,

This is great. Right now we have an ethylene glycol RLs at 10 ppm with the labs reporting down to their MDL (around 1-5ppm).

The table below is the list we are currently analyzing on our LC/MS/MS -- but we currently are unable to do ethylene glycol or propylene glycol. We get an unidentified peak in some of the samples at the same parent mass as 2-methoxyethanol. We believe this is propylene glycol. Can R6 do all of the glycols on our list including propylene and what levels can you obtain?

2-Methoxyethanol	Water	100	ug/L
2-Butoxyethanol	Water	10	ug/L
Di ethylene glycol	Water	25	ug/L
Tri ethylene glycol	Water	25	ug/L
Tetra ethylene glycol	Water	25	ug/L

Stevie Wilding, Chemist
Environmental Science Center
Analytical Services Branch
(410) 305-2606

"Our lives begin to end the day we become silent about things that matter."

-- Martin Luther King, Jr. --

Rick McMillin---02/29/2012 10:38:44 AM---Stevie, We have the column installed and ready to go. Ken Stevens is making standards to run a curve

From: Rick McMillin/R6/USEPA/US
To: Stevie Wilding/ESC/R3/USEPA/US
Date: 02/29/2012 10:38 AM
Subject: Re: Ethylene Glycol

Stevie,

We have the column installed and ready to go. Ken Stevens is making standards to run a curve. If it looks good we will be good to go.
What reporting limit is needed for this test?

Rick McMillin
Deputy Branch Chief
Region 6 Houston Lab
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Stevie Wilding---02/27/2012 04:59:28 PM---The contract lab did analysis with GC/FID and did no confirmation analysis. Detects were very low -

From: Stevie Wilding/ESC/R3/USEPA/US
To: Rick McMillin/R6/USEPA/US@EPA
Date: 02/27/2012 04:59 PM
Subject: Re: Ethylene Glycol

The contract lab did analysis with GC/FID and did no confirmation analysis. Detects were very low -- but we did not feel confident with the results.

Rick McMillin---02/27/2012 04:37:15 PM---Stevie, I would like to help. However, timing isn't good for us, we have Nick out this week and Dia

From: Rick McMillin/R6/USEPA/US
To: Stevie Wilding/ESC/R3/USEPA/US
Date: 02/27/2012 04:37 PM
Subject: Re: Ethylene Glycol

Stevie,

I would like to help. However, timing isn't good for us, we have Nick out this week and Diane isn't back for a couple of weeks. However, I have one chemist who might have time to get the method back up and try out ethylene glycol, but he is out for the day. I will talk to him in the morning and see what we can do.

Any ideas why the contract lab didn't provide useful data? Reporting limit too low or bad QC?

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Deputy Branch Chief
Region 6 Houston Lab
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Stevie Wilding---02/27/2012 03:17:42 PM---Rick, We have another round of sampling to occur for 4 homes in Dimock next week. Sorry for the lat

From: Stevie Wilding/ESC/R3/USEPA/US
To: Rick McMillin/R6/USEPA/US@EPA
Date: 02/27/2012 03:17 PM
Subject: Re: Ethylene Glycol

Rick,

We have another round of sampling to occur for 4 homes in Dimock next week. Sorry for the late notice -- but the contracted results for ethylene glycol did not provide useful data. So I wanted to ask again if Region 6 can or would be willing to provide support for this analysis. The number of samples is should be about 10 -- but could go up to and continue into the following week.

Stevie Wilding, Chemist
Environmental Science Center
Analytical Services Branch
(410) 305-2606

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-- Martin Luther King, Jr. --

Rick McMillin---01/19/2012 04:39:34 PM---Thanks Stevie, We really want to help and feel bad about the circumstances. If there is some other

From: Rick McMillin/R6/USEPA/US
To: Stevie Wilding/ESC/R3/USEPA/US
Date: 01/19/2012 04:39 PM
Subject: Re: Ethylene Glycol

Thanks Stevie,

We really want to help and feel bad about the circumstances. If there is some other way we can be of assistance please let us know.

Rick McMillin
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Stevie Wilding---01/19/2012 03:33:07 PM---Rick, Thanks for the update. Given the urgency of this sampling event -- we will probably contract

From: Stevie Wilding/ESC/R3/USEPA/US
To: Rick McMillin/R6/USEPA/US@EPA
Cc: Adam Molnar/ESC/R3/USEPA/US@EPA
Date: 01/19/2012 03:33 PM
Subject: Re: Ethylene Glycol

Rick,

Thanks for the update. Given the urgency of this sampling event -- we will probably contract this out.

Stevie

Rick McMillin---01/19/2012 04:23:57 PM---Stevie, My boss David Neleigh asked me to contact you about the ethylene glycol samples. I will try

From: Rick McMillin/R6/USEPA/US
To: Stevie Wilding/ESC/R3/USEPA/US
Date: 01/19/2012 04:23 PM
Subject: Ethylene Glycol

Stevie,

My boss David Neleigh asked me to contact you about the ethylene glycol samples. I will try to give you a call after I send this message in case you are still in the office.

We are willing to try to set up the method for ethylene glycol using the same method we used for propylene glycol in the Gulf Oil Spill, which was a direct inject GC/MS on a wax column. The problem is that Diane Gregg, the person who set up this method for us, is out until the middle of March and we have

a large number of samples in house right now. We should be able to get the method going without her, but right now feel that the earliest we could take samples would be Feb 13th, given our current commitments. Let us know if you think that would work for you, or if we really need to look at taking more extreme measures to fit this in.

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